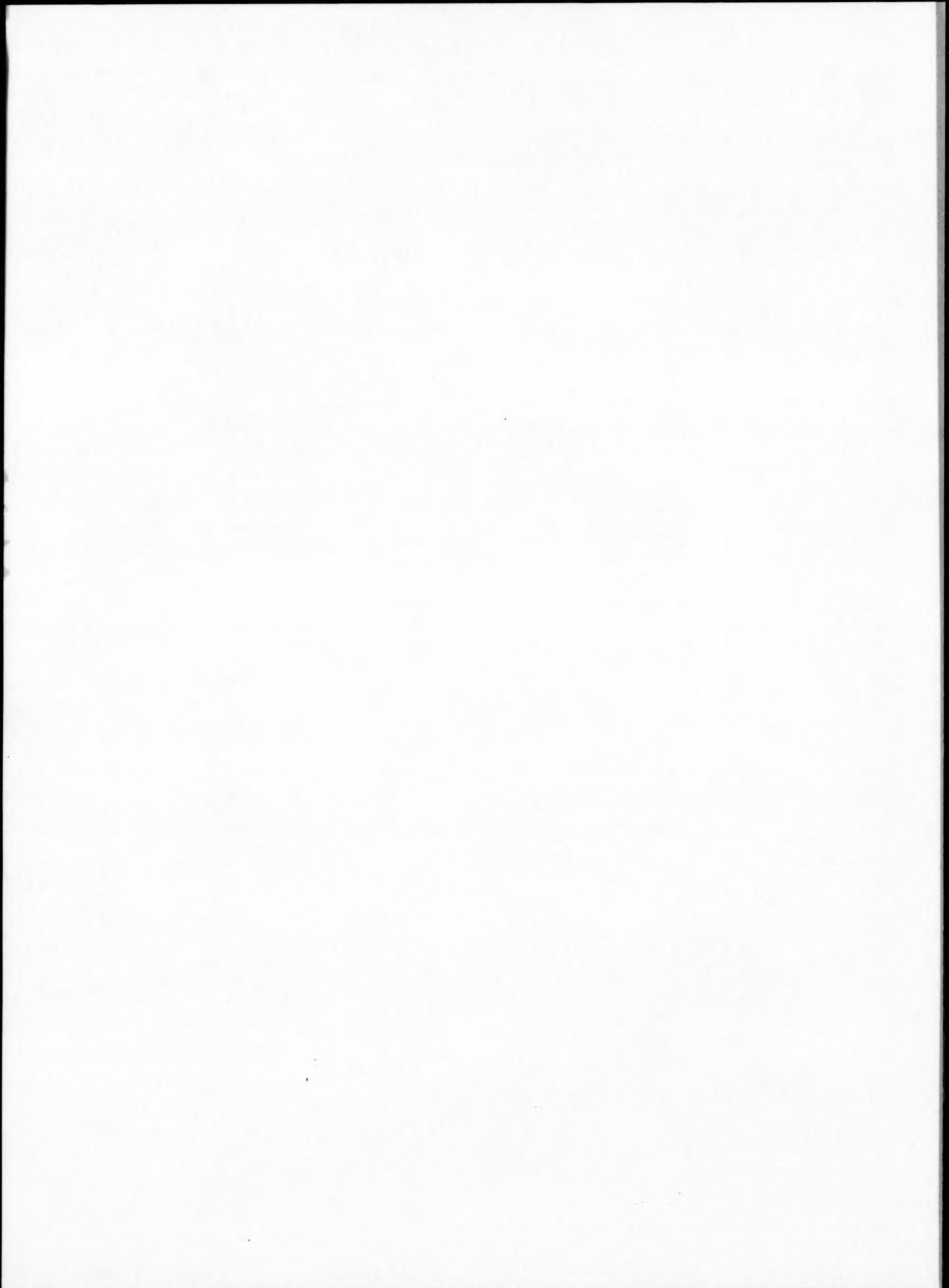


Author Index of Volume 81

Abu Al-Rub, F.A. 83	Datta, R. 83	Mameri, N. 153	Rasmussen, A. 69, 331
Abu-Eishah, S.I. 231	Dernini, S. 271	Mangin, D. 91	Sajet, Ph. 171
Abu-Jabal, N.M. 231	Doan, H.D. 53	Margaritis, A. 179	Salamon, P. 341
Adour, L. 153	Doki, N. 313	Marison, I. 113	San Román, F. 129
Aguilera-Vázquez, L. 197	Einicke, W.-D. 187	Martin, G. 301	Sastre, A.M. 109
Ait-Amar, H. 317	Elizalde-González, M.P. 187	Martínez de la Ossa, E. 287	Sato, A. 313
Alguacil, F.J. 109	Elmidaoui, A. 153	Maruyama, S. 1	Saucedo-Castañeda, G. 197
Aliouche, D. 317	Fan, J. 261	Matsuoka, M. 307	Schenker, B. 113
Ampuero, S. 113	Fayed, M.E. 53	Mattusch, J. 187	Sha, Z. 101
Antonini, G. 171	Funakoshi, K. 307	McKay, G. 213	Šolcová, O. 281
Auquier, W. 171	Galán, B. 129	Micov, M. 9	Soto-Cruz, N.O. 197
Bariou, B. 153	Genin, G. 301	Moreira, R. 35	Srinivasan, K. 63
Bassi, A.S. 179	Gutiérrez-Rojas, M. 197	Nallet, V. 91	Steinrueck, H. 342
Basu, S. 323	Hejtmánek, V. 281	Nebot, E. 287	Sun, P. 261
Beenackers, A.A.C.M. 203	Houzelot, J.L. 301	Ooshima, H. 1	Takiyama, H. 307
Belhocine, D. 153	Klein, J.P. 91	Ortiz, I. 129	Therning, P. 69, 331
Bensakhria, A. 171	Kotro, A. 301	Osiadacz, A.J. 41	Tondeur, D. 23
Blandin, A.F. 91	Kubota, N. 313	Pal, R. 15	Trass, O. 53
Bossoutrot, J.M. 91	Lahfati, K. 317	Palosaari, S. 101	Vázquez, M.J. 35
Bou-Diab, L. 113	Lan, Q. 179	Pangarkar, V.G. 203	von Stockar, U. 113
Čapek, P. 281	Leu, L.-P. 223	Parasu Veera, U. 251	Wang, T.-T. 161
Carta, R. 271	Louhi-Kultanen, M. 101	Parthasarathy, G. 137	Wennrich, R. 187
Cen, K. 261	Lounici, H. 153	Pereira, G. 35	Yang, W.-C. 161
Chaczykowski, M. 41	Lutišan, J. 9	Pollák, S. 9	Yokota, M. 313
Chahbani, M.H. 23	Ma, Y. 261	Portela, J.R. 287	Zhu, J.-X. 179
Chen, C.-M. 223		Qian, L. 261	
Chenlo, F. 35			
Cvengroš, J. 9			
Dagaonkar, M.V. 203			



Subject Index of Volume 81

Absorption capacity
 Experimental determination and liquid absorption capacities interpretation of biotextiles with complex absorbent structure — influence of superabsorptive gel polymer, 317

Activated alumina
 Novel technique to regenerate activated alumina bed saturated by fluoride ions, 153

Activated carbon
 Solution to the homogeneous surface diffusion model for batch adsorption systems using orthogonal collocation, 213

Adsorption
 Pressure drop in fixed-bed adsorbers, 23
 Minimization of cost of recycling in chemical processes, 137
 Solution to the homogeneous surface diffusion model for batch adsorption systems using orthogonal collocation, 213

Agglomerate purity
 Influences of seed crystals on agglomeration phenomena and product purity of *m*-chloronitrobenzene crystals in batch crystallization, 307

Agglomeration phenomena
 Influences of seed crystals on agglomeration phenomena and product purity of *m*-chloronitrobenzene crystals in batch crystallization, 307

Aqueous solutions
 Kinematic viscosity prediction for aqueous solutions with various solutes, 35

Arsenic
 Sorption on natural solids for arsenic removal, 187

Artificial viscosity method
 Computational modeling of pulverized coal combustion processes in tangentially fired furnaces, 261

Azeotrope
 Isobaric vapor-liquid equilibria of water-pyridine and water-pyridine-calcium chloride mixtures, 83

Batch crystallization
 Influences of seed crystals on agglomeration phenomena and product purity of *m*-chloronitrobenzene crystals in batch crystallization, 307

Beer Lambert
 Nouvelles méthodes de mesure des distributions de temps de séjour d'une phase solide transportée, 301

Biochemical reaction calorimetry
 Improvement of continuous calibration based on temperature oscillation and application to biochemical reaction calorimetry, 113

Biotextile structures
 Experimental determination and liquid absorption capacities interpretation of biotextiles with complex absorbent structure — influence of superabsorptive gel polymer, 317

Bubble column
 Gamma ray tomography design for the measurement of hold-up profiles in two-phase bubble columns, 251

Calcium hydroxide
 Enhancement of gas-liquid mass transfer by small reactive particles at realistically high mass transfer coefficients: absorption of sulfur dioxide into aqueous slurries of $\text{Ca}(\text{OH})_2$ and $\text{Mg}(\text{OH})_2$ particles, 203

Calibration by temperature oscillations
 Improvement of continuous calibration based on temperature oscillation and application to biochemical reaction calorimetry, 113

Capillary number
 Evaluation of theoretical viscosity models for concentrated emulsions at low capillary numbers, 15

Cd recovery
 Kinetics of the recovery of Cd from highly concentrated aqueous solutions by non-dispersive solvent extraction, 129

Chordal and radial hold-up profiles
 Gamma ray tomography design for the measurement of hold-up profiles in two-phase bubble columns, 251

Cocomposting
 A model system for cocomposting hydrocarbon contaminated soil by using water activity and porosity as response variables, 197

Co-extraction
 Co-extraction and selective stripping of copper (II) and molybdenum (VI) using LIX 622, 109

Collocation
 Solution to the homogeneous surface diffusion model for batch adsorption systems using orthogonal collocation, 213

Column
 Novel technique to regenerate activated alumina bed saturated by fluoride ions, 153

Concentrations
 Nouvelles méthodes de mesure des distributions de temps de séjour d'une phase solide transportée, 301

Concentrations de particules solides
 Nouvelles méthodes de mesure des distributions de temps de séjour d'une phase solide transportée, 301

Condensation
 Minimization of cost of recycling in chemical processes, 137

Copper (II)
 Co-extraction and selective stripping of copper (II) and molybdenum (VI) using LIX 622, 109

Cost minimization
 Minimization of cost of recycling in chemical processes, 137

Crystal size distribution
 Effect of cooling mode on product crystal size in seeded batch crystallization of potassium alum, 313

Crystallization
 Mechanism of the solvent-mediated transformation of taltirelin polymorphs promoted by methanol, 1
 Neural network simulation for non-MSMPR crystallization, 101
 Minimization of cost of recycling in chemical processes, 137
 Effect of cooling mode on product crystal size in seeded batch crystallization of potassium alum, 313

Curvature
 Curvature of the vapour pressure curve, 63

Design
 Neural network simulation for non-MSMPR crystallization, 101

Desorption
 Pressure drop in fixed-bed adsorbers, 23

Di(2-ethylhexyl) phosphoric acid
 Kinetics of the recovery of Cd from highly concentrated aqueous solutions by non-dispersive solvent extraction, 129

Dihydrate process
 Parametric study on the production of phosphoric acid by the dihydrate process, 231

Distribution de temps de séjour phase solide
 Nouvelles méthodes de mesure des distributions de temps de séjour d'une phase solide transportée, 301

Dyes
 Solution to the homogeneous surface diffusion model for batch adsorption systems using orthogonal collocation, 213

Electrodesorption
 Novel technique to regenerate activated alumina bed saturated by fluoride ions, 153

Electrodialysis
 Factors affecting the current and the voltage efficiencies of the synthesis of quaternary ammonium hydroxides by electrolysis-electrodialysis, 161

Electrolysis
 Factors affecting the current and the voltage efficiencies of the synthesis of quaternary ammonium hydroxides by electrolysis-electrodialysis, 161

Electrolytes
 Kinematic viscosity prediction for aqueous solutions with various solutes, 35

Elevated pressures
 Liquid dispersion, gas holdup and frictional pressure drop in a packed bubble column at elevated pressures, 331

Emulsion
 Evaluation of theoretical viscosity models for concentrated emulsions at low capillary numbers, 15

Enhancement
 Enhancement of gas-liquid mass transfer by small reactive particles at realistically high mass transfer coefficients: absorption of sulfur dioxide into aqueous slurries of $\text{Ca}(\text{OH})_2$ and $\text{Mg}(\text{OH})_2$ particles, 203

Ferri-ferrocyanide solution
 Measurement of local and overall mass-transfer coefficients to a sphere in a quiescent liquid using a limiting current technique, 53

Fixed-bed absorber
 Pressure drop in fixed-bed adsorbers, 23

Gas flow
 Comparison of isothermal and non-isothermal pipeline gas flow models, 41

Gas holdup
 Liquid dispersion and gas holdup in packed bubble columns at atmospheric pressure, 69
 A highly elevated mass transfer rate process for three-phase, liquid-continuous fluidized beds, 223
 Liquid dispersion, gas holdup and frictional pressure drop in a packed bubble column at elevated pressures, 331

Gas networks
 Comparison of isothermal and non-isothermal pipeline gas flow models, 41

Global solution algorithm
 Minimization of cost of recycling in chemical processes, 137

Hydrolysis
 Kinetic study of the acetate-catalysed hydrolysis of phenyl acetate, 271

Ion exchange
 A modified Langmuir model for the prediction of the effects of ionic strength on the equilibrium characteristics of protein adsorption onto ion exchange/affinity adsorbents, 179

Ionic strength
 A modified Langmuir model for the prediction of the effects of ionic strength on the equilibrium characteristics of protein adsorption onto ion exchange/affinity adsorbents, 179

Kinematic viscosity
 Kinematic viscosity prediction for aqueous solutions with various solutes, 35

Kinetic model
 Kinetics of the recovery of Cd from highly concentrated aqueous solutions by non-dispersive solvent extraction, 129

Kinetics
 Kinetics identification of salicylic acid precipitation through experiments in a batch stirred vessel and a T-mixer, 91

Langmuir isotherm
 A modified Langmuir model for the prediction of the effects of ionic strength on the equilibrium characteristics of protein adsorption onto ion exchange/affinity adsorbents, 179

Liquid absorption
 Experimental determination and liquid absorption capacities interpretation of biotextiles with complex absorbent structure — influence of superabsorptive gel polymer, 317

Liquid circulation
 Liquid dispersion and gas holdup in packed bubble columns at atmospheric pressure, 69

Liquid dispersion
 Liquid dispersion and gas holdup in packed bubble columns at atmospheric pressure, 69
 Liquid dispersion, gas holdup and frictional pressure drop in a packed bubble column at elevated pressures, 331

Liquid film
 Film wiping in the molecular evaporator, 9

Lit transporté
 Nouvelles méthodes de mesure des distributions de temps de séjour d'une phase solide transportée, 301

LIX 622
 Co-extraction and selective stripping of copper (II) and molybdenum (VI) using LIX 622, 109

Magnesium hydroxide
 Enhancement of gas-liquid mass transfer by small reactive particles at realistically high mass transfer coefficients: absorption of sulfur dioxide into aqueous slurries of $\text{Ca}(\text{OH})_2$ and $\text{Mg}(\text{OH})_2$ particles, 203

Mass integration
 Minimization of cost of recycling in chemical processes, 137

Mass transfer
 A highly elevated mass transfer rate process for three-phase, liquid-continuous fluidized beds, 223

Mass-transfer coefficients
 Measurement of local and overall mass-transfer coefficients to a sphere in a quiescent liquid using a limiting current technique, 53

Mathematical modeling
 Comparison of isothermal and non-isothermal pipeline gas flow models, 41

Microwave
 Kinetic study of the acetate-catalysed hydrolysis of phenyl acetate, 271

Modeling
 Kinetics identification of salicylic acid precipitation through experiments in a batch stirred vessel and a T-mixer, 91
 A modified Langmuir model for the prediction of the effects of ionic strength on the equilibrium characteristics of protein adsorption onto ion exchange/affinity adsorbents, 179

Modeling and simulation

Parametric study on the production of phosphoric acid by the dihydrate process, 231

Molecular evaporator

Film wiping in the molecular evaporator, 9

Molybdenum (VI)

Co-extraction and selective stripping of copper (II) and molybdenum (VI) using LIX 622, 109

Mots-clés: Méthodes optiques

Nouvelles méthodes de mesure des distributions de temps de séjour d'une phase solide transportée, 301

Multi-solute solutions

Kinematic viscosity prediction for aqueous solutions with various solutes, 35

Natural solids

Sorption on natural solids for arsenic removal, 187

Neural network

Neural network simulation for non-MSMPR crystallization, 101

Non-dispersive solvent extraction

Kinetics of the recovery of Cd from highly concentrated aqueous solutions by non-dispersive solvent extraction, 129

Non-Newtonian fluid

A highly elevated mass transfer rate process for three-phase, liquid-continuous fluidized beds, 223

Non-staggered grid

Computational modeling of pulverized coal combustion processes in tangentially fired furnaces, 261

On-line calibration

Improvement of continuous calibration based on temperature oscillation and application to biochemical reaction calorimetry, 113

Packed bed

Wall effect in laminar flow of non-Newtonian fluid through a packed bed, 323

Packed bubble columns

Liquid dispersion and gas holdup in packed bubble columns at atmospheric pressure, 69

Liquid dispersion, gas holdup and frictional pressure drop in a packed bubble column at elevated pressures, 331

Parametric study

Parametric study on the production of phosphoric acid by the dihydrate process, 231

Particle dispersion

Computational modeling of pulverized coal combustion processes in tangentially fired furnaces, 261

Penicillin

Minimization of cost of recycling in chemical processes, 137

Permeation of gases

Permeation of gases in industrial porous catalysts, 281

Phenol

Solution to the homogeneous surface diffusion model for batch adsorption systems using orthogonal collocation, 213

Phenol and kinetics

Kinetic comparison between subcritical and supercritical water oxidation of phenol, 287

Phenyl acetate

Kinetic study of the acetate-catalysed hydrolysis of phenyl acetate, 271

Phosphoric acid

Parametric study on the production of phosphoric acid by the dihydrate process, 231

Pilot plant

Parametric study on the production of phosphoric acid by the dihydrate process, 231

Polymorphism

Mechanism of the solvent-mediated transformation of taltirelin polymorphs promoted by methanol, 1

Porosity

A model system for cocomposting hydrocarbon contaminated soil by using water activity and porosity as response variables, 197

Porous materials

Permeation of gases in industrial porous catalysts, 281

Potassium alum

Effect of cooling mode on product crystal size in seeded batch crystallization of potassium alum, 313

Precipitation

Kinetics identification of salicylic acid precipitation through experiments in a batch stirred vessel and a T-mixer, 91

Pressure drop

Pressure drop in fixed-bed adsorbers, 23

Protein adsorption

A modified Langmuir model for the prediction of the effects of ionic strength on the equilibrium characteristics of protein adsorption onto ion exchange/affinity adsorbents, 179

Pure liquids

Curvature of the vapour pressure curve, 63

Pyridine

Isobaric vapor-liquid equilibria of water-pyridine and water-pyridine-calcium chloride mixtures, 83

Quaternary ammonium hydroxides

Factors affecting the current and the voltage efficiencies of the synthesis of quaternary ammonium hydroxides by electrolysis-electrodialysis, 161

Reactive solids

Enhancement of gas-liquid mass transfer by small reactive particles at realistically high mass transfer coefficients: absorption of sulfur dioxide into aqueous slurries of $\text{Ca}(\text{OH})_2$ and $\text{Mg}(\text{OH})_2$ particles, 203

Recycling

Minimization of cost of recycling in chemical processes, 137

Solid/solid separation by selective agglomeration with agglomerant recovery by thermal desorption, 171

Regeneration

Novel technique to regenerate activated alumina bed saturated by fluoride ions, 153

Residence time distribution

Film wiping in the molecular evaporator, 9

Response surface methodology

A model system for cocomposting hydrocarbon contaminated soil by using water activity and porosity as response variables, 197

Rheology

Evaluation of theoretical viscosity models for concentrated emulsions at low capillary numbers, 15

RNG $k-\epsilon$ model

Computational modeling of pulverized coal combustion processes in tangentially fired furnaces, 261

Salicylic acid

Kinetics identification of salicylic acid precipitation through experiments in a batch stirred vessel and a T-mixer, 91

Salt

Isobaric vapor-liquid equilibria of water-pyridine and water-pyridine-calcium chloride mixtures, 83

Seed crystals

Influences of seed crystals on agglomeration phenomena and product purity of *m*-chloronitrobenzene crystals in batch crystallization, 307

Selective agglomeration

Solid/solid separation by selective agglomeration with agglomerant recovery by thermal desorption, 171

Selective stripping
Co-extraction and selective stripping of copper (II) and molybdenum (VI) using LIX 622, 109

Sherwood number
Measurement of local and overall mass-transfer coefficients to a sphere in a quiescent liquid using a limiting current technique, 53

Silica
Solution to the homogeneous surface diffusion model for batch adsorption systems using orthogonal collocation, 213

Simplex
Minimization of cost of recycling in chemical processes, 137

Simulation
Comparison of isothermal and non-isothermal pipeline gas flow models, 41
Neural network simulation for non-MSMPR crystallization, 101

Soil
A model system for cocomposting hydrocarbon contaminated soil by using water activity and porosity as response variables, 197

Solid dissolution
Enhancement of gas-liquid mass transfer by small reactive particles at realistically high mass transfer coefficients: absorption of sulfur dioxide into aqueous slurries of $\text{Ca}(\text{OH})_2$ and $\text{Mg}(\text{OH})_2$ particles, 203

Sorption
Sorption on natural solids for arsenic removal, 187

Sulfur dioxide
Enhancement of gas-liquid mass transfer by small reactive particles at realistically high mass transfer coefficients: absorption of sulfur dioxide into aqueous slurries of $\text{Ca}(\text{OH})_2$ and $\text{Mg}(\text{OH})_2$ particles, 203

Supercritical water oxidation
Kinetic comparison between subcritical and supercritical water oxidation of phenol, 287

Surface diffusion model
Solution to the homogeneous surface diffusion model for batch adsorption systems using orthogonal collocation, 213

Tailings de-ashing
Solid/solid separation by selective agglomeration with agglomerant recovery by thermal desorption, 171

Taltirelin
Mechanism of the solvent-mediated transformation of taltirelin polymorphs promoted by methanol, 1

Temperature deviation
Computational modeling of pulverized coal combustion processes in tangentially fired furnaces, 261

Thermal desorption
Solid/solid separation by selective agglomeration with agglomerant recovery by thermal desorption, 171

Three-phase fluidized beds
A highly elevated mass transfer rate process for three-phase, liquid-continuous fluidized beds, 223

T-mixer
Kinetics identification of salicylic acid precipitation through experiments in a batch stirred vessel and a T-mixer, 91

Tomography
Gamma ray tomography design for the measurement of hold-up profiles in two-phase bubble columns, 251

Transformation
Mechanism of the solvent-mediated transformation of taltirelin polymorphs promoted by methanol, 1

Transport parameters of porous solids
Permeation of gases in industrial porous catalysts, 281

Urea-adduct process
Minimization of cost of recycling in chemical processes, 137

Vapour pressure
Curvature of the vapour pressure curve, 63

Vapour-liquid equilibria
Curvature of the vapour pressure curve, 63

Viscosity
Evaluation of theoretical viscosity models for concentrated emulsions at low capillary numbers, 15

Viscosity models
Evaluation of theoretical viscosity models for concentrated emulsions at low capillary numbers, 15

VLE
Isobaric vapor-liquid equilibria of water-pyridine and water-pyridine-calcium chloride mixtures, 83

Voidage variation
Wall effect in laminar flow of non-Newtonian fluid through a packed bed, 323

Wall effect
Wall effect in laminar flow of non-Newtonian fluid through a packed bed, 323

Water activity
A model system for cocomposting hydrocarbon contaminated soil by using water activity and porosity as response variables, 197

Wet air oxidation
Kinetic comparison between subcritical and supercritical water oxidation of phenol, 287

Wiper
Film wiping in the molecular evaporator, 9

Zeolites
Sorption on natural solids for arsenic removal, 187